

Access DB# 85015**SEARCH REQUEST FORM**

Scientific and Technical Information Center

Requester's Full Name: David Ton Examiner #: 73667 Date: 01/23/03
Art Unit: 2133 Phone Number 306-3043 Serial Number: 09/996086
Mail Box Location: 4R17 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Litigation
5954839

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Shirelle Green</u>	Sequence (#) _____	<u>STN</u>
Searcher Phone #: <u>306-4767</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: <u>4B40</u>	Structure (#) _____	<u>Questel/Orbit</u> <u>24.07</u>
Date Searcher Picked Up: <u>1/23/03</u>	Bibliographic _____	Dr.Link _____
Date Completed: <u>1/23/03</u>	Litigation _____	<u>Lexis/Nexis</u>
Searcher Prep & Review Time: <u>2</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: <u>2</u>	Patent Family _____	<u>WWW/Internet</u>
Online Time: <u>2</u>	Other _____	Other (specify) _____

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5954839

September 21, 1999

Error protection method for multimedia data

REISSUE: Reissue Application filed Sep. 21, 2001 (O.G. Jan. 15, 2002) Ex. Gp.: 2786; Re. S.N. 09/996,086, (O.G. January 15, 2002)

INVENTOR: Park, Dong-seek, Daegu, KR; Villasenor, John, Santa Monica, CA; Chen, Feng, Irvine, CA; Luttrell, Max, Santa Monica, CA; Dowling, Brendan, Malibu, CA

APPL-NO: 782174 (08)

FILED-DATE: January 14, 1997

GRANTED-DATE: September 21, 1999

ASSIGNEE-AFTER-ISSUE: May 27, 1997 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., REGENTS OF THE UNIVERSITY OF CALIFORNIA, THE 300 LAKESIDE DRIVE, 22ND FL. OAK LAND CALIFORNIA 94612, Reel and Frame Number: 008551/0267

November 5, 1998 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., REGENTS OF THE UNIVERSITY OF CALIFORNIA, THE 1111 FRANKLIN STREET, 12TH FLOOR OAKLAND CALIFORNIA 94607, Reel and Frame Number: 009563/0885

LEGAL-REP: Sughrue, Mion, Zinn, Macpeak & Seas, PLLC

US-MAIN-CL: 714#699

US-ADDL-CL: 375#364, 375#368, 714#746, 714#748, 714#751, 714#775

SEARCH-FLD: 371#72, 371#30, 371#32, 371#35, 371#42, 371#370.2, 371#370.5, 357#206, 653#25, 364#514, 375#364, 375#368, 369#59

IPC-MAIN-CL: G 06F011#0

PRIM-EXMR: Elmore, Reba I.

ASST-EXMR: Marc, McDieunel

LEXIS-NEXIS
Library: PATENT
File: ALL

ENGLISH-ABST:

An error protection method for multimedia improves data recovery and channel throughput in channels which cause a random error and a burst error by using a rate compatible punctured convolutional code (RCPC) and an automatic retransmission on request (ARQ). In a process of decoding a plurality of packets of given information, the error protection method includes the steps of a) decoding one of the plurality of packets, b) decoding another packet when an error occurs during the decoding in step a), c) decoding a combination of the packets from steps a) and b) or a third packet when an error occurs in step b), and d) repeating step c) until the decoding error no longer occurs. The error protection method has the characteristics of both Type-1 and Type-2 ARQ methods. Therefore, one can obtain constant channel throughput in a channel containing burst errors, a channel containing random errors, and a channel in which the two types of error patterns coexist simultaneously.

No Documents Found

No documents were found for your search (**5954839** or **5,954,839**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

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LEXIS-NEXIS
Library: PATENT
File: CASES

No Documents Found

No documents were found for your search (**5954839** or **5,954,839**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

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LEXIS-NEXIS
Library: PATENT
File: JNLS

?us5954839/pn

** SS 5: Results 1

Search statement 6

?prt full nonstop legalall

1/1 PLUSPAT - (C) QUESTEL-ORBIT- image
PN - US5954839 A 19990921 [US5954839]
TI - (A) Error protection method for multimedia data
PA - (A) SAMSUNG ELECTRONICS CO LTD (KR); UNIV CALIFORNIA (US)
IN - (A) PARK DONG-SEEK (KR); VILLASENOR JOHN (US); CHEN FENG (US);
LUTTRELL MAX (US); DOWLING BRENDAN (US)
AP - US78217497 19970114 [1997US-0782174]
PR - US78217497 19970114 [1997US-0782174]
IC - (A) G06F-011/00
EC - H03M-013/00
- H04L-001/00B2
- H04L-001/18D2
PCL - ORIGINAL (O) : 714699000; CROSS-REFERENCE (X) : 375364000 375368000
714746000 714748000 714751000 714775000
DT - Corresponding document
CT - US4914699; US5157687; US5671156; US5689439; EP0479296 A1
- Gold et al., "Error Correction strategies for data Broadcasting",
IEEE, pp. 323-327, 1988.

Pingzhi et al., "Linear Unequal Error-Protection Array Codes", IEEE,
pp. 333-334, Jan. 1988.

Shiozaki, "Unequal Error Protection of PCM Signals by Self-Orthogonal
Convolutional Codes", IEEE, pp. 289-290, 1989.

Baker et al., "Mode S System Design and Architecture", IEEE, pp.
1689-1694, 1989.

Stephen B. Wicker, "Adaptive Rate Error Control Through the Use of
Diversity Combining and Majority Logic Decoding in a Hybrid-ARQ
Protocol", IEEE, pp. 29.6.1.-29.6.6., 1989.

STG - (A) United States patent
AB - An error protection method for multimedia improves data recovery and
channel throughput in channels which cause a random error and a burst
error by using a rate compatible punctured convolutional code (RCPC)
and an automatic retransmission on request (ARQ). In a process of
decoding a plurality of packets of given information, the error
protection method includes the steps of a) decoding one of the
plurality of packets, b) decoding another packet when an error occurs
during the decoding in step a), c) decoding a combination of the
packets from steps a) and b) or a third packet when an error occurs in
step b), and d) repeating step c) until the decoding error no longer
occurs. The error protection method has the characteristics of both
Type-1 and Type-2 ARQ methods. Therefore, one can obtain constant
channel throughput in a channel containing burst errors, a channel
containing random errors, and a channel in which the two types of
error patterns coexist simultaneously.

1/1 LGST - (C) LEGSTAT
PN - US 5954839 [US5954839]
AP - US 782174/97 19970114 [1997US-0782174]
DT - US-P
ACT - 19970114 US/AE-A
APPLICATION DATA (PATENT)

{US 782174/97 19970114 [1997US-0782174]}

- 19970527 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
SAMSUNG ELECTRONICS CO., LTD. 416, MAETAN-DONG, PALDAL-GU, SUWON-CITY
KYUNGKI-DO * PARK, DONG-SEEK : 19970507; VILLASENOR, JOHN : 19970523;
CHEN, FENG : 19970523
- 19981105 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
REGENTS OF THE UNIVERSITY OF CALIFORNIA, THE 1111 FRANKLIN STREET,
12TH FLOOR OA * LUTTRELL, MAX : 19980521; DOWLING, BRENDAN : 19980606
- 19990921 US/A
PATENT
- 20020115 US/RF
REISSUE APPLICATION FILED
20010921

UP - 2002-05

1/1 CRXX - (C) CLAIMS/RRX
PN - 5,954,839 A 19990921 [US5954839]
PA - California, University of Regents; Samsung Electronics Co Ltd KR
ACT - 20010921 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020115
REISSUE REQUEST NUMBER: 09/996086
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2786

Reissue Patent Number:

1/1 PAST - (C) Thomson Derwent
AN - 200203-001691
PN - 5954839 A [US5954839]
OG - 2002-01-15
ACT - REISSUE APPLICATION FILED

fam us5954839/pn

1 Patent Groups
** SS 5: Results 20

Search statement 6

?famstate nonstop

1/20 INPADOC - (C) INPADOC

PN - AU 731511 B2 20010329 [AU-731511]
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA
IN - PARK DONG SEEK; VILLASENOR JOHN; CHEN FENG; DOWLING DRENDAN; LULTERELL
MAX
PA - SAMSUNG ELECTRONICS CO LTD; UNIV CALIFORNIA
AP - AU 56809/98-A 19980112 [1998AU-0056809]
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR000004]
- US 782174/97-A 19970114 [1997US-0782174]
IC - H03M-013/00

2/20 INPADOC - (C) INPADOC

PN - AU 56809/98 A1 19980803 [AU9856809]
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA
IN - PARK DONG SEEK; VILLASENOR JOHN; CHEN FENG; DOWLING DRENDAN; LULTERELL
MAX
PA - SAMSUNG ELECTRONICS CO LTD
AP - AU 56809/98-A 19980112 [1998AU-0056809]
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR000004]
- US 782174/97-A 19970114 [1997US-0782174]
IC - H03M-013/00

3/20 INPADOC - (C) INPADOC

PN - BR 9806956 A 20000321 [BR9806956]
TI - ERRO PARA MULTIMIDIA
IN - PARK DONG SEEK; VILLASENOR JOHN; CHEN FENG; DOWLING BRENDAN; LUTTRELL
MAX
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]
AP - BR 9806956/98-A 19980112 [1998BR-0006956]
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR000004]
- US 782174/97-A 19970114 [1997US-0782174]
IC - H03M-013/00

4/20 INPADOC - (C) INPADOC

PN - DE 19881949 T 20000413 [DE19881949]
TI - VERFAHREN ZUR FEHLERVERHINDERUNG FUER MULTIMEDIA
IN - PARK DONG SEEK [KR]; VILLASENOR JOHN [US]; CHEN FENG [US]; DOWLING
BRENDAN [US]; LUTTRELL MAX [US]
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]
AP - DE 19881949/98-A 19980112 [1998DE-1081949]
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR000004]
- US 782174/97-A 19970114 [1997US-0782174]
IC - H03M-013/00

1/3 LEGALI - (C) LEGSTAT

PN - DE 19861185 [DE19861185]
DT - DE-P
ACTE- 20010906 DE/R171-P
DIVIDED OUT TO:
(DE 19881949 20010906 [DE19881949])

- 20010906 DE/8172-P
SUPPLEMENTARY DIVISION/PARTITION IN:
(DE 19881949 20010906 [DE19881949])
- 20011206 DE/8142
DECLARATION FOR PARTITION TO BE CONSIDERED AS NOT GIVEN AS TO
PARAGRAPH 39 OR 60
- 20020124 DE/8170 [+]
REINSTATEMENT OF THE FORMER POSITION
- 20020221 DE/8110 [+]
REQUEST FOR EXAMINATION PARAGRAPH 44
- 20020919 DE/8607
NOTIFICATION OF SEARCH RESULTS AFTER PUBLICATION

UP - 2002-38

2/3 LEGALI - (C) LEGSTAT

PN - DE 19881949 [DE19881949]
DT - DE-P
ACTE- 20000413 DE/OP8 [+]
REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW

- 20000413 DE/RET-P [+]
PCT-APPLICATION TRANSLATED (PART 6B PATENT GAZETTE)
<WO 9831106 20000413>
- 20010104 DE/8607
NOTIFICATION OF SEARCH RESULTS AFTER PUBLICATION
- 20010906 DE/R172-P
DIVIDED OUT OF (SUPPLEMENT):
(DE 19861185 20010906 [DE19861185])
- 20010906 DE/8171-P
DIVISION OF:
(DE 19861185 20010906 [DE19861185])

UP - 2001-36

3/3 LEGALI - (C) LEGSTAT

PN - WO 9831106 [WO9831106]
AP - WO 9800004/98(KR) 19980112 [1998WO-KR000004]
DT - WO-P
ACTE- 19980112 WO/AE-A
APPLICATION DATA
{WO 9800004/98(KR) 19980112 [1998WO-KR000004]}

- 19980716 WO/AK-A1 [+]
DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT
AU BR CA CN DE ES GB JP RU SG
- 19980716 WO/AL-A1 [+]
DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED
APPLICATION WITH SEARCH REPORT
AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
- 19980716 WO/A1 [+]
PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL
SEARCH REPORT
- 19981001 WO/DFPE
REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH
MONTH FROM PRIORITY DATE
- 19981216 WO/121
EP: ALL PREREQUISITES FOR ENTERING THE EUROP. PHASE FULFILED
- 19990712 WO/ENP-A
ENTRY INTO THE NATIONAL PHASE IN:
<GB 9916132>
- 19990713 WO/ENP-AA
ENTRY INTO THE NATIONAL PHASE IN:
<CA 2278515>
- 19990714 WO/ENP-A
ENTRY INTO THE NATIONAL PHASE IN:
<JP 98530766>

- 20000413 WO/RET-P [+]
DE TRANSLATION (DE OG PART 6B)
(DE 19881949 20000413 [DE19881949])
UP - 2000-34

5/20 INPADOC - (C) INPADOC

PN - EP 953230 A1 19991103 [EP-953230]
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA
LA - ENG
IN - PARK DONG SEEK [KR]; VILLASENOR JOHN [US]; CHEN FENG [US]; DOWLING
BRENDAN [US]; LUTTRELL MAX [US]
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]
AP - EP 98901114/98-A 19980112 [1998EP-0901114]
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR00004]
- US 782174/97-A 19970114 [1997US-0782174]
IC - H03M-013/00
DS - FR* IT* NL*

1/1 LEGALI - (C) LEGSTAT

PN - EP 953230 [EP-953230]
AP - EP 98901114/98 19980112 [1998EP-0901114]
DT - EP-P
ACTE- 19980112 EP/AE-A
EP-APPLICATION
{EP 98901114/98 19980112 [1998EP-0901114]}
- 19991103 EP/AK-A1 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:
FR IT NL
- 19991103 EP/A1 [+]
PUBLICATION OF APPLICATION WITH SEARCH REPORT
- 19991103 EP/17P [+]
REQUEST FOR EXAMINATION FILED
19990811
- 20000126 EP/RAP1
APPLICANT REASSIGNMENT (CORRECTION)
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA * REGENTS OF THE
UNIVERSITY OF CALIFORNIA
- 20021218 EP/17Q [+]
FIRST EXAMINATION REPORT
20021030
UP - 2003-02

6/20 INPADOC - (C) INPADOC

PN - ES 2156577 AA 20010616 [ES2156577]
TI - PROCEDIMIENTO DE PREVENCION DE ERRORES PARA MULTIMEDIA
IN - DONG SEEK PARK [KR]; VILLASENOR JOHN [US]; FENG CHEN [US]; DOWLING
BRENDAN [US]; LUTTRELL MAX [US]
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA
AP - ES 9950035/99-A 19980112 [1999ES-0050035]
PR - US 782174/97-A 19970114 [1997US-0782174]
IC - H03M-013/00

1/2 LEGALI - (C) LEGSTAT

PN - ES 2156577 [ES2156577]
AP - ES 9950035/99 19980112 [1999ES-0050035]
DT - ES-P
ACTE- 19980112 ES/AE-A
APPLIED (PATENT APPLICATION)
{ES 9950035/99 19980112 [1999ES-0050035]}

UP - 2001-29

2/2 LEGALI - (C) LEGSTAT

PN - ES 9950035 [ES9950035]

DT - ES-AN

ACTE- 20010616 ES/AGA-AA [+]

PUBLISHED AS PATENT APPLICATION WITH SEARCH REPORT

(ES 2156577 20010616 [ES2156577])

- 20010616 ES/EC2A [+]

SEARCH REPORT PUBLISHED

20010616A1

- 20020301 ES/AGA-BA [+]

PUBLISHED AS PATENT GRANTED WITH SEARCH REPORT

(ES 2156577 20020301 [ES2156577])

UP - 2002-13

7/20 INPADOC - (C) INPADOC

PN - ES 2156577 BA 20020301 [ES2156577]

TI - PROCEDIMIENTO DE PREVENCIÓN DE ERRORES PARA MULTIMEDIA

IN - DONG SEEK PARK [KR]; VILLASENOR JOHN [US]; FENG CHEN [US]; DOWLING
BRENDAN [US]; LUTTRELL MAX [US]

PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA

AP - ES 9950035/99-A 19980112 [1999ES-0050035]

PR - US 782174/97-A 19970114 [1997US-0782174]

IC - H03M-013/00

1/2 LEGALI - (C) LEGSTAT

PN - ES 2156577 [ES2156577]

AP - ES 9950035/99 19980112 [1999ES-0050035]

DT - ES-P

ACTE- 19980112 ES/AE-A

APPLIED (PATENT APPLICATION)

{ES 9950035/99 19980112 [1999ES-0050035]}

UP - 2001-29

2/2 LEGALI - (C) LEGSTAT

PN - ES 9950035 [ES9950035]

DT - ES-AN

ACTE- 20010616 ES/AGA-AA [+]

PUBLISHED AS PATENT APPLICATION WITH SEARCH REPORT

(ES 2156577 20010616 [ES2156577])

- 20010616 ES/EC2A [+]

SEARCH REPORT PUBLISHED

20010616A1

- 20020301 ES/AGA-BA [+]

PUBLISHED AS PATENT GRANTED WITH SEARCH REPORT

(ES 2156577 20020301 [ES2156577])

UP - 2002-13

8/20 INPADOC - (C) INPADOC

PN - GB 2347056 A1 20000823 [GB2347056]

TI - ERROR PREVENTION METHOD FOR MULTIMEDIA

IN - PARK DONG-SEEK [KR]; VILLASENOR JOHN D [US]; CHEN FENG [US]; DOWLING
BRENDAN [US]; LUTTRELL MAX [US]

PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]

AP - GB 9916132/99-A 19980112 [1999GB-0016132]

PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR00004]

- US 782174/97-A 19970114 [1997US-0782174]

IC - H03M-013/23; H04L-001/18

1/1 LEGALI - (C) LEGSTAT
PN - GB 2347056 [GB2347056]
AP - GB 9916132/99 19980112 [1999GB-0016132]
DT - GB-P
ACTE- 19980112 GB/AE-A
APPLICATION DATA
{GB 9916132/99 19980112 [1999GB-0016132]}
- 20000823 GB/A1
APPLICATION PUBLISHED
- 20020508 GB/B2 [+]
PATENT GRANTED
UP - 2002-19

9/20 INPADOC - (C) INPADOC
PN - GB 200202515 A0 20020320 [GB200202515]
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA
PA - SAMSUNG ELECTRONICS CO LTD; UNIV CALIFORNIA
AP - GB 200202515/02-A 19980112 [2002GB-0202515]
PR - GB 9916132/99-A3 19980112 [1999GB-0016132]
- US 782174/97-A 19970114 [1997US-0782174]

10/20 INPADOC - (C) INPADOC
PN - GB 200202514 A0 20020320 [GB200202514]
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA
PA - SAMSUNG ELECTRONICS CO LTD; UNIV CALIFORNIA
AP - GB 200202514/02-A 19980112 [2002GB-0202514]
PR - GB 9916132/99-A3 19980112 [1999GB-0016132]
- US 782174/97-A 19970114 [1997US-0782174]

11/20 INPADOC - (C) INPADOC
PN - GB 2368760 A1 20020508 [GB2368760]
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA DATA PACKETS
IN - PARK DONG SEEK [KR]; VILLASENOR JOHN D [US]; CHEN FENG [US]; DOWLING
BRENDAN [US]; LUTTRELL MAX [US]
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]
AP - GB 200202515/02-A 19980112 [2002GB-0202515]
PR - GB 9916132/99-A3 19980112 [1999GB-0016132]
- US 782174/97-A 19970114 [1997US-0782174]
IC - H03M-013/23; H04L-001/18

1/1 LEGALI - (C) LEGSTAT
PN - GB 2368760 [GB2368760]
AP - GB 200202515/02 19980112 [2002GB-0002515]
DT - GB-P
ACTE- 19980112 GB/AE-A
APPLICATION DATA
{GB 200202515/02 19980112 [2002GB-0002515]}
- 20020508 GB/A1
APPLICATION PUBLISHED
- 20020619 GB/B2 [+]
PATENT GRANTED
UP - 2002-25

12/20 INPADOC - (C) INPADOC
PN - GB 2368759 A1 20020508 [GB2368759]
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA DATA PACKETS
IN - PARK DONG SEEK [KR]; VILLASENOR JOHN D [US]; CHEN FENG [US]; DOWLING

BRENDAN [US]; LUTTRELL MAX [US]
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]
AP - GB 200202514/02-A 19980112 [2002GB-0202514]
PR - GB 9916132/99-A3 19980112 [1999GB-0016132]
- US 782174/97-A 19970114 [1997US-0782174]
IC - H03M-013/23; H04L-001/18

1/1 LEGALI - (C) LEGSTAT
PN - GB 2368759 [GB2368759]
AP - GB 200202514/02 19980112 [2002GB-0002514]
DT - GB-P
ACTE- 19980112 GB/AE-A
APPLICATION DATA
{GB 200202514/02 19980112 [2002GB-0002514]}
- 20020508 GB/A1
APPLICATION PUBLISHED
- 20020619 GB/B2 [+]
PATENT GRANTED
UP - 2002-25

13/20 INPADOC - (C) INPADOC
PN - GB 2347056 B2 20020508 [GB2347056]
TI - METHOD FOR PROTECTING AGAINST ERRORS
IN - PARK DONG-SEEK [KR]; VILLASENOR JOHN D [US]; CHEN FENG [US]; DOWLING
BRENDAN [US]; LUTTRELL MAX [US]
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]
AP - GB 9916132/99-A 19980112 [1999GB-0016132]
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR000004]
- US 782174/97-A 19970114 [1997US-0782174]
IC - H03M-013/23; H04L-001/18

1/2 LEGALI - (C) LEGSTAT
PN - GB 2347056 [GB2347056]
AP - GB 9916132/99 19980112 [1999GB-0016132]
DT - GB-P
ACTE- 19980112 GB/AE-A
APPLICATION DATA
{GB 9916132/99 19980112 [1999GB-0016132]}
- 20000823 GB/A1
APPLICATION PUBLISHED
- 20020508 GB/B2 [+]
PATENT GRANTED
UP - 2002-19

2/2 LEGALI - (C) LEGSTAT
PN - GB 9916132 [GB9916132]
AP - GB 9916132 - [99GB-0016132]
DT - GB-A
ACTE- 19990712 GB/REFW-P
CORRESPONDS TO PCT APPLICATION
<WO 9831106> [WO9831106]
UP - 2000-34

14/20 INPADOC - (C) INPADOC
PN - GB 2368760 B2 20020619 [GB2368760]
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA
IN - PARK DONG SEEK [KR]; VILLASENOR JOHN D [US]; CHEN FENG [US]; DOWLING
BRENDAN [US]; LUTTRELL MAX [US]
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]

AP - GB 200202515/02-A 19980112 [2002GB-0202515]
PR - GB 9916132/99-A3 19980112 [1999GB-0016132]
- US 782174/97-A 19970114 [1997US-0782174]
IC - H03M-013/23; H04L-001/18

1/1 LEGALI - (C) LEGSTAT

PN - GB 2368760 [GB2368760]
AP - GB 200202515/02 19980112 [2002GB-0002515]
DT - GB-P
ACTE- 19980112 GB/AE-A
APPLICATION DATA
{GB 200202515/02 19980112 [2002GB-0002515]}
- 20020508 GB/A1
APPLICATION PUBLISHED
- 20020619 GB/B2 [+]
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15/20 INPADOC - (C) INPADOC

PN - GB 2368759 B2 20020619 [GB2368759]
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA
IN - PARK DONG SEEK [KR]; VILLASENOR JOHN D [US]; CHEN FENG [US]; DOWLING
BRENDAN [US]; LUTTRELL MAX [US]
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]
AP - GB 200202514/02-A 19980112 [2002GB-0202514]
PR - GB 9916132/99-A3 19980112 [1999GB-0016132]
- US 782174/97-A 19970114 [1997US-0782174]
IC - H03M-013/23; H04L-001/18

1/1 LEGALI - (C) LEGSTAT

PN - GB 2368759 [GB2368759]
AP - GB 200202514/02 19980112 [2002GB-0002514]
DT - GB-P
ACTE- 19980112 GB/AE-A
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16/20 INPADOC - (C) INPADOC

PN - GB 9916132 A0 19990908 [GB9916132]
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA
PA - SAMSUNG ELECTRONICS CO LTD; UNIV CALIFORNIA
AP - GB 9916132/99-A 19980112 [1999GB-0016132]
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR00004]
- US 782174/97-A 19970114 [1997US-0782174]

1/1 LEGALI - (C) LEGSTAT

PN - GB 9916132 [GB9916132]
AP - GB 9916132 - [99GB-0016132]
DT - GB-A
ACTE- 19990712 GB/REFW-P
CORRESPONDS TO PCT APPLICATION
<WO 9831106> [WO9831106]
UP - 2000-34

17/20 INPADOC - (C) INPADOC

PN - JP 2000508151 T2 20000627 [JP2000508151]
AP - JP 530766/98-A 19980112 [1998JP-0530766]
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR00004]
- US 782174/97-A 19970114 [1997US-0782174]
IC - H04L-001/18; H03M-013/01; H04L-012/56

18/20 INPADOC - (C) INPADOC

PN - KR 230331 B1 19991115 [KR-230331]
TI - THE ERROR PROTECTING METHOD FOR MULTI-MEDIA
IN - PARK DONG SIK [KR]; BILASONER JOHN [US]; CHEN PENG [US]; RUTHERAL MAX
[US]; DOLING BREADAN [US]
PA - SAMSUNG ELECTRONICS CO LTD [KR]
AP - KR 9742940/97-A 19970829 [1997KR-0042940]
PR - US 782174/97-A 19970114 [1997US-0782174]
IC - H04L-012/56

19/20 INPADOC - (C) INPADOC

PN - US 5954839 A 19990921 [US5954839]
TI - ERROR PROTECTION METHOD FOR MULTIMEDIA DATA
IN - PARK DONG-SEEK [KR]; VILLASENOR JOHN [US]; CHEN FENG [US]; LUTTRELL
MAX [US]; DOWLING BRENDAN [US]
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]
AP - US 782174/97-A 19970114 [1997US-0782174]
PR - US 782174/97-A 19970114 [1997US-0782174]
IC - G06F-011/00

1/1 LEGALI - (C) LEGSTAT

PN - US 5954839 [US5954839]
AP - US 782174/97 19970114 [1997US-0782174]
DT - US-P
ACTE- 19970114 US/AE-A
APPLICATION DATA (PATENT)
{US 782174/97 19970114 [1997US-0782174]}
- 19970527 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
SAMSUNG ELECTRONICS CO., LTD. 416, MAETAN-DONG, PALDAL-GU, SUWON-CITY
KYUNGKI-DO * PARK, DONG-SEEK : 19970507; VILLASENOR, JOHN : 19970523;
CHEN, FENG : 19970523
- 19981105 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
REGENTS OF THE UNIVERSITY OF CALIFORNIA, THE 1111 FRANKLIN STREET,
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- 19990921 US/A
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20010921
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20/20 INPADOC - (C) INPADOC

PN - WO 9831106 A1 19980716 [WO9831106]
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA
LA - ENG
IN - PARK DONG SEEK; VILLASENOR JOHN; CHEN FENG; DOWLING DRENDAN; LULTERELL
MAX
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]

AP - WO KR 9800004/98(KR)-A 19980112 [1998WO-KR00004]
PR - US 782174/97-A 19970114 [1997US-0782174]
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1/4 LEGALI - (C) LEGSTAT
PN - GB 9916132 [GB9916132]
AP - GB 9916132 - [99GB-0016132]
DT - GB-A
ACTE- 19990712 GB/REFW-P
CORRESPONDS TO PCT APPLICATION
<WO 9831106> [WO9831106]
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2/4 LEGALI - (C) LEGSTAT
PN - JP 530766/98
AP - JP 530766/98 - [1998JP-0530766]
DT - JP-A
ACTE- 19990714 JP/REFW-P
CORRESPONDS TO PCT APPLICATION
<WO 9831106> [WO9831106]
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3/4 LEGALI - (C) LEGSTAT
PN - CA 2278515 [CA2278515]
DT - CA-P
ACTE- 19990713 CA/REFW-P
CORRESPONDS TO PCT APPLICATION
<WO 9831106> [WO9831106]
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4/4 LEGALI - (C) LEGSTAT
PN - WO 9831106 [WO9831106]
AP - WO 9800004/98(KR) 19980112 [1998WO-KR00004]
DT - WO-P
ACTE- 19980112 WO/AE-A
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- 19980716 WO/AK-A1 [+]
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- 19981216 WO/121
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- 19990713 WO/ENP-AA
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- 19990714 WO/ENP-A
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